

HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

HAER  
PA  
11-JOTO,  
136A-

CAMBRIA IRON COMPANY,  
GAUTIER WORKS 12" MILL  
Clinton Street and Little Conemaugh River  
Johnstown  
Cambria County  
Pennsylvania

HAER No. PA-314-A

Jet Lowe, photographer, 1988

- PA-314-A-1      VIEW OF C&B RAILROAD FLAT CAR SHOWING BILLETS. THE BILLETS COME FROM BETHLEHEM STEEL'S FRANKLIN WORKS AND ARE EITHER PLACED, AFTER CUTTING TO SIZE WITH A WELDING TORCH ("BURNING"), INTO THE FURNACE FOR THE 12" MILL, OR THEY ARE ROLLED THROUGH THE 14" MILL AND BROUGHT TO BILLET YARD OF THE 12" MILL FOR HEATING AND ROLLING.
- PA-314-A-2      VIEW OF WELDER CUTTING BILLETS TO SIZE.
- PA-314-A-3      VIEW OF TRANSFER CAR (BATTERY-ELECTRIC POWERED) FROM BILLET YARD POSITIONED FOR LOADING BILLETS INTO FURNACE; HEATER (BEHIND SCREEN IN CENTER) MOVES THE TRANSFER CAR INTO POSITION. BILLETS FROM THE TRANSFER CAR ARE PLACED ON HAND-OPERATED TURNTABLE. THE FURNACE IS NATURAL-GAS FIRED, WITH BILLETS HEATED AT NOT MORE THAN 2400 DEGREES FAHRENHEIT.
- PA-314-A-4      HEATER'S HELPER OPERATING PUSHER. HOT BILLETS ON CONVEYOR MOVE TO OPENING AT THE HEAD OF THE 12" MILL. PUSHER (ELECTRICALLY OPERATED) MOVES BILLETS INTO READY POSITION FOR 12" MILL.
- PA-314-A-5      VIEW OF TRANSFER CAR MOVING BILLETS TO FURNACE.
- PA-314-A-6      VIEW OF FURNACE.
- PA-314-A-7      VIEW OF HEATER OPERATING PUSHER.
- PA-314-A-8      VIEW OF HEATER OPERATING PUSHER.
- PA-314-A-9      VIEW OF HEATER OPERATING PUSHER.
- PA-314-A-10     VIEW OF BILLETS EXITING FURNACE AND MOVING TO ROLLING MILL.

PA-314-A-11 VIEW OF BILLETS EXITING FURNACE.

PA-314-A-12 VIEW OF HAND-OPERATED ROLLING MILLS  
ROLLING STANDS FROM LEFT TO RIGHT:  
THREE HIGH; THREE HIGH; THREE HIGH;  
THREE HIGH (OPERATED AS A TWO-HIGH); TWO HIGH  
TWO HIGH MANUFACTURED BY BLAW-KNOX  
THREE HIGH MANUFACTURED BY LEWIS FOUNDRY AND  
MACHINE CO.

PA-314-A-13 VIEW OF WORKER MANIPULATING BILLET INTO THREE-HIGH  
ROLLING MILL.

PA-314-A-14 VIEW OF WORKER MANIPULATING BILLET INTO THREE-HIGH  
ROLLING MILL.

Note: The following views (Nos. 15-23) detail works  
employees manipulating hot metal through the  
rolling mills.

PA-314-A-15 VIEW OF WORKER "CATCHING" BILLET AFTER IT HAS BEEN  
ROLLED THROUGH 3-HIGH MILL.

PA-314-A-16 VIEW OF STANDS FROM "STREET SIDE"

PA-314-A-17 WORKERS MANIPULATING BILLET

PA-314-A-18 WORKERS MANIPULATING BILLET

PA-314-A-19 WORKERS MANIPULATING BILLET

PA-314-A-20 WORKERS MANIPULATING BILLET

PA-314-A-21 WORKERS MANIPULATING BILLET

PA-314-A-22 WORKERS MANIPULATING BILLET

PA-314-A-23 WORKERS MANIPULATING BILLET

PA-314-A-24 BILLET IN FOREGROUND BEING POSITIONED TO ENTER  
FIRST STAND OF ROLLS. HOT METAL IN DISTANCE IS  
BEING ROLLED THROUGH FINAL TWO-HIGH MILL.

PA-314-A-25 VIEW OF FINAL PASS THROUGH TWO-HIGH MILL

PA-314-A-26      VIEW OF FINAL PASS THROUGH TWO-HIGH MILL

PA-314-A-27      VIEW OF COOLING BED WHERE FINISHED BARS ARE PLACED  
PRIOR TO TRANSFER TO ELECTRIC-POWERED SHEAR

PA-314-A-28      VIEW OF SHEAR (ELECTRIC POWERED), SCALE HOUSE TO  
LEFT. BARS ARE PLACED ON WEIGHING SCALE SHOWN LOWER  
LEFT. 15-TON CLEVELAND CRANE HANDLES BARS FOR  
FINAL LOADING INTO RAILROAD CARS (12" BAY) AND FOR  
MOVING FROM TABLE TO SHEAR TABLE.